



Information Technology Specialist

# Tech starts here

Put your students on the pathway  
to a thriving tech career

Pearson helps students prepare for their future by offering affordable, entry-level technology certifications.

The Information Technology Specialist program is a way for students to validate foundational IT skills sought after by employers. The IT Specialist program is aimed at candidates who are considering, or just beginning, a path toward a career in information technology.

Students can certify their knowledge in a broad range of IT topics, including AI, software development, database administration, networking and security, mobility and device management, and coding.

**Preparing for the future** — help your students become more competitive. IT Specialist is the first step toward more advanced certifications, which will help your students increase their value in the job market.

**Careers** — an IT Specialist certification demonstrates that students have the necessary skills and knowledge to pursue entry-level technology jobs, such as apprenticeships and internships.

**Confidence** — industry-recognised credentials inspire confidence as students pursue future college and career aspirations.

*“From pay raises and job promotions to productivity gains and personal satisfaction, survey respondents benefited in a variety of ways. Of those who set a specific goal for certification, 80% successfully met those goals and reaped direct and intrinsic benefits.”*

**2023 Value of IT  
Certification Candidate Report**

*“No matter what degree you chose or road you choose to travel, everything has become digital so you will need foundational technology skills at every point in your life.”*

**Deloris**, Technology Specialist, College Connection

# IT Specialist Certification

Help students explore their potential while preparing them for information technology education and careers which require the following in-demand skills:

**Artificial Intelligence** — Professional use of AI by understanding how it can be used to solve problems.

**Cloud Computing** — Ability to identify and describe end solutions that leverage cloud technologies, considerations that span across solutions and the “art of the possible”.

**Computational Thinking** — Decompose problems, collect and analyse data, recognise patterns in data, represent data through abstractions, and automate solutions by using algorithmic thinking.

**Cybersecurity** — Understanding of key security paradigms, terminology, and mindset including a keen awareness of the importance of security and the threats to a business when security procedures are not followed.

**Data Analytics** — Responsibly manipulate, analyse, and communicate.

**Databases** — Foundational knowledge of how to design and query relational databases, such as MySQL, Microsoft SQL Server, or Oracle.

**Device Configuration and Management** — Foundational skills in, and a basic knowledge of, Windows devices and mobility.

**HTML and CSS** — Ability to structure a webpage using HTML elements and create and apply styles using CS.

**HTML5 Application Development** — Skills using HTML5, CSS, and JavaScript to build responsive web applications that will run on a variety of touch-enabled devices, including PCs, tablets, and phones.

**JavaScript** — Ability to recognise, write, and debug JavaScript code that will logically solve a problem.

**Java** — Ability to recognise, write, and debug Java code that will logically solve a problem.

**Networking** — Foundational networking knowledge and skills, including TCP/IP, networking services, topologies, and troubleshooting in wired and wireless environments.

**Network Security** — Understanding of core security principles, operating system security, network and device security, and secure computing practices.

**Python** — Ability to recognise, write, and debug Python code that will logically solve a problem.

**Software Development** — Core skills such as object-oriented programming, web applications, and databases. Candidates are expected to have some experience with C# and ANSI SQL.

## Boost your students' confidence

IT Specialist certifications are a great way to boost the confidence of your students by providing them with the sense of accomplishment that comes with earning an industry-recognised credential.

## Build your tech program

Success is contagious. When word spreads that students from your program are earning certifications and preparing for high-paying tech careers, other students will naturally want to join.

Learn more

<https://www.pearsonvue.com/us/en/it-exam-resources/it-specialist.html>

